

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

DIMENSIONS"

ROCKWOOD et al.

Prior Group Art Unit: 2671

Serial No.: Not Yet Assigned

Prior Examiner: Lance W. Sealey

Filed: Herewith

**INFORMATION DISCLOSURE
STATEMENT**

Atty. File No.: 3404-2-1

For "COMPUTATIONAL GEOMETRY
USING CONTROL GEOMETRY
HAVING AT LEAST TWO
DIMENSIONS"

Express Mail Label: EV 331286156 US

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

Copies of the cited references:

☒ Enclosed herewith are two references which are labeled with an asterisk. All other references are not enclosed.

☒ Are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. 09/360,029 filed July 23, 1999, which is relied upon for an earlier filing date under 35 U.S.C. § 120

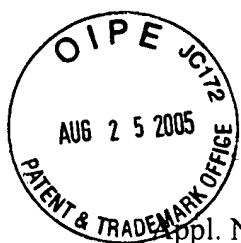
☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following co-pending applications, copies of which have been or are being submitted:

Serial No. 09/360,029 filed July 23, 1999

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented.

Submission of this statement should not be taken as an indication that a search has been conducted, or that no



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/689,693
Applicant : LEE et al.
Filed: : October 20, 2003
Group Art Unit : 2671
Examiner : SEALEY, Lance W.
Docket No. : 3404-2-1
Customer No. : 22442
Title : "COMPUTATIONAL GEOMETRY USING CONTROL
GEOMETRY HAVING AT LEAST TWO DIMENSIONS"

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DATE OF DEPOSIT: August 25, 2005

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**REQUEST FOR CONSIDERATION OF
INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicants have not received any information on the Information Disclosure Statement previously filed with the application on October 20, 2003. A copy of the Information Disclosure Statement and PTO Form-1449 is enclosed for your convenience, along with a copy of the returned postcard receipt. Applicants respectfully request consideration of the Information Disclosure Statement.

Respectfully submitted,

SHERIDAN ROSS P.C.

By 

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(303) 863-9700

Date: Aug. 25, 2005

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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS, P.C.

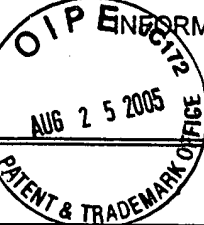
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
3404-2-1SERIAL NO.
Not Yet AssignedINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)APPLICANT
ROCKWOOD et al.FILING DATE
HerewithGROUP ART
2671

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	1	6,369,815*	4/9/02	Celniker et al.	345	420	
	2	6,256,038*	7/3/01	Krishnamurthy	345	419	
	3	6,133,922	10/17/2000	Opitz	345	420	
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	7	5,745,666	4/28/1998	Gilley et al.	395	128	
	8	5,636,338	6/3/1997	Moreton	395	142	
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	27	5,123,087	06/16/92	Newell et al.	395	155	

EXAMINER

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	APPLICANT ROCKWOOD et al.	
	FILING DATE Herewith	GROUP ART 2671

	28	4,821,214	04/11/89	Sederberg	364	522	
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31	James et al., "Accurate Real Time Deformable Objects", <i>SIGGRAPH 99, Los Angeles, California</i> , August 8-13, 1999, pp. 65-72
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39	Barghiel et al., "Pasting Spline Surfaces", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press</i> 1995, pp. 31-40, ISBN 8265-1268-2
40	Brunnett et al., "Spline elements on Spheres" from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press</i> 1995, pp. 49-54, ISBN 8265-1268-2
41	M.D. Buhmann et al., "Spectral Properties and Knot Removal for Interpolation by Pure Radial Sums", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press</i> 1995, pp. 55-62, ISBN 8265-1268-2
42	Ma et al., "NURBS Curve and Surface Fitting and Interpolation", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press</i> 1995, pp. 315-322, ISBN 8265-1268-2
43	W.L.F. Degen, "High Accuracy Approximation of Parametric Curves", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press</i> 1995, pp. 83-98, ISBN 8265-1268-2
44	Lodha et al, "Duality between Degree Elevation and Differentiation of B-bases and L-bases", from <i>Mathematical Methods for Curves and Surfaces</i> , Editors: Lyche and Schumaker, copyright <i>Vanderbilt University Press</i> 1995, pp. 305-314, ISBN 8265-1268-2

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	APPLICANT ROCKWOOD et al.	
	FILING DATE Herewith	GROUP ART 2671

45	Dyn et al., "Piecewise Uniform Subdivision Schemes", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 111-119, ISBN 8265-1268-2
46	Ellens et al., "An Approach to $C^{(1)}$ and $C^{(0)}$ Feature Lines", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 121-132, ISBN 8265-1268-2
47	G. Farin, "The Geometry of C^1 Projective curves and Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 133-139, ISBN 8265-1268-2
48	M.S. Floater, "Rational Cubic Implicitization", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 151-159, ISBN 8265-1268-2
49	Baining Guo, "Avoiding Topological Anomalies in Quadric Surface Patches", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 177-186, ISBN 8265-1268-2
50	Jan Hadenfeld, "Local Energy Fairing of B-Spline Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 203-212, ISBN 8265-1268-2
51	Hermann et al., "Techniques for Variable Radius Rolling Ball Blends", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 225-236, ISBN 8265-1268-2
52	Hoschek et al., "Interpolation and Approximation with Developable B-Spline Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 255-264, ISBN 8265-1268-2
53	Leif Kobbelt, "Interpolatory Refinement as a Low Pass Filter", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 281-290, ISBN 8265-1268-2
54	Kolb et al., "Surface Reconstruction Based Upon Minimum Norm Networks", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 293-304, ISBN 8265-1268-2
55	Stephen Mann, "Using Local Optimization in Surface Fitting", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 323-332, ISBN 8265-1268-2
56	Manni et al., " C^1 Comonotone Hermite Interpolation via Parametric Surfaces", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 333-342, ISBN 8265-1268-2
57	A. Markus et al., "Genetic Algorithms in Free Form Curve Design", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 43-354, ISBN 8265-1268-2
58	Even Mehlum, "Appeal and the Apple (Nonlinear Splines in Space)", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 365-384, ISBN 8265-1268-2
59	Helmut Pottmann, "Studying NURBS curves and Surfaces with Classical Geometry", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 413-438, ISBN 8265-1268-2
60	R. Schaback, "Creating Surfaces from Scattered Data Using Radial Basis Functions", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 477-496, ISBN 8265-1268-2
61	Sederberg, "Shape Blending of 2-D Piecewise Curves", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 497-506, ISBN 8265-1268-2

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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT ROCKWOOD et al.	
		FILING DATE Herewith	GROUP ART 2671

62	Weller et al., "Tensor-Product Spline Spaces with Knot Segments", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 563-572, ISBN 8265-1268-2
63	Kenji Ueda, "Normalized Cyclide Bezier Patches", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 507-516, ISBN 8265-1268-2
64	Varady et al., "Vertex Blending Based on the Setback Split", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 527-542, ISBN 8265-1268-2
65	J. Warren, "Binary Subdivision Schemes for Functions over Irregular Know Sequences", from <u>Mathematical Methods for Curves and Surfaces</u> , Editors: Lyche and Schumaker, copyright <u>Vanderbilt University Press</u> 1995, pp. 543-562, ISBN 8265-1268-2
66	T.D. DeRose, "Applications of Multiresolution Surfaces", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 1-15
67	G. Albrecht, "A geometrical design handle for rational triangular Bezier patches", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 161-171
68	A. Nasri, "Interpolation of open B-spline curves by recursive subdivision surfaces", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 173-188
69	Ives-Smith et al., "Methods of surface airing of spline surfaces within shipbuilding", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 209-221
70	Rausch et al. "Computation of medial curves on surfaces", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 43-68
71	M.J. Pratt, "Classification and characterization of supercyclides", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 25-41
72	A.A. Ball, "CAD: master or servant of engineering?", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 17-33
73	Bloor et al., "The PDE method in geometric and functional design", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 281-307
74	Pottmann et al., "Principal surfaces", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 337-362
75	Froumentin et al., "Quadric surfaces: a survey with new results", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 363-381
76	Liu et al., "Shape control and modification of rational cubic B-spline curves", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 383-391
77	Hall et al., "Shape modification of Gregory patches", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 393-408
78	Peters et al., "Smooth blending of basic surfaces using trivariate box splines", <u>The Mathematics of Surfaces VII</u> , Editors: Goodman and Martin, <u>Information Geometers</u> , 1997, pp. 409-426
79	R.E. Barnhill, "Computer Aided Surface Representation and Design", <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, 1983, pp. 1-24
80	John A. Gregory, "C ¹ Rectangular and Non-Rectangular Surface Patches, <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, 1983, pp. 25-33

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	APPLICANT ROCKWOOD et al.	
	FILING DATE Herewith	GROUP ART 2671

81	Gerald Farin, "Smooth Interpolation to Scattered 3D Data", <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, 1983, pp. 43-62
82	Juergen Kahnmann, "Continuity of Curvature Between Adjacent Bezier Patches", <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, 1983, pp. 65-75
83	Wolfgang Boehm, "Generating the Bezier Points of Triangular Splines", <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, 1983, pp. 77-91
84	Frank F. Little, "Convex Combination Surfaces", <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, pp.99-107
85	Wolfgang Boehm, "The De Boor Algorithm for Triangular Splines", <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, 1983, pp. 109-120
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87	Dahmen et al., "Multivariate Splines - A New Constrictive Approach", <u>Surfaces In Computer Aided Geometric Design</u> , North-Holland Publishing, 1983, pp. 191-215
88	Atteia et al., "Spline elastic Manifolds", <u>Mathematical Methods in Computer Aided Geometric Design</u> , Editors: Lynch and Schumaker, 1989, pp. 45-50
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91	Cavaretta et al., "The Design of Curves and Surfaces by Subdivision Algorithms", <u>Mathematical Methods in Computer Aided Geometric Design</u> , Editors: Lynch and Schumaker, 1989, pp. 115-153
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93	Gerald Farin, "Rational Curves and Surfaces", <u>Mathematical Methods in Computer Aided Geometric Design</u> , Editors: Lynch and Schumaker, 1989, pp. 215-238
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95	R.A. Lorentz, "Uniform bivariate Hermite Interpolation", <u>Mathematical Methods in Computer Aided Geometric Design</u> , Editors: Lynch and Schumaker, 1989, pp. 435-444
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97	H-P Seidel, "A General Subdivision Theorem for Bezier Triangles", <u>Mathematical Methods in Computer Aided Geometric Design</u> , Editors: Lynch and Schumaker, 1989, pp. 573-581
98	Kadi et al., "Conformal maps defined about polynomial curves", <u>Computer Aided Geometric Design</u> , Publisher: Elsevier Science B.V., 1998, pp. 323-337
99	Wallner et al., "Spline Orbifolds", <u>Proceedings of Chamenix</u> , Vanderbilt University Press, 1996, pp. 1-20

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 3404-2-1	SERIAL NO. Not Yet Assigned
	APPLICANT ROCKWOOD et al.	
	FILING DATE Herewith	GROUP ART 2671

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

LEE et al.

Serial No.: 10/689,693

Filed: October 20, 2003

Atty. File No.: 3404-2-1

For: "GEOMETRIC DESIGN AND
MODELING SYSTEM USING
CONTROL GEOMETRY"

) Group Art Unit: 2671

) Examiner: SEALEY, Lance W.

) **INFORMATION DISCLOSURE**
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☒ Copies of the cited foreign patents and/or non-patent references are enclosed herewith.

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☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

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Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

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☐ The undersigned certifies that:

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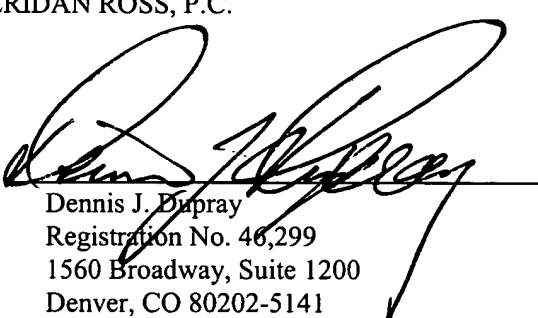
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Respectfully submitted,

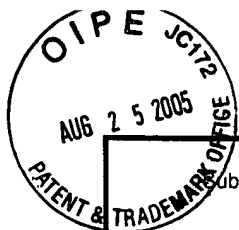
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Aug. 25, 2005
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/689,693
				Filing Date	October 20, 2003
				First Named Inventor	ROCKWOOD et al.
				Art Unit	2671
				Examiner Name	SEALEY, Lance W.
Sheet	1	of	1	Attorney Docket Number	3404-2-1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. ¹	
	1	"Part Modeling User's Guide: Surface Features"; (date unknown); 41 pp.

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